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| 09/892,664 | 06/28/2001 | Steven G. Smith | BS00-353 | 2057 | |
| 45695 | 7590 03/29/2006 | , | EXAM | EXAMINER | |
| WITHERS & KEYS FOR BELL SOUTH | | | ARMSTRONG, ANGELA A | | |
| P. O. BOX 7 MARIETTA | 1355 , GA 30007-1355 | | ART UNIT | PAPER NUMBER | |
| | , | | 2626 | | |
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Please find below and/or attached an Office communication concerning this application or proceeding.

| | | Application No. | Applicant(s) | - · · · · · · · · · · · · · · · · · · · | | |
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| Office Action Summary | | 09/892,664 | SMITH ET AL. | SMITH ET AL. | | |
| | | Examiner | Art Unit | | | |
| | | Angela A. Armstrong | 2654 | | | |
| Period fe | The MAILING DATE of this communication apported to the communication apport. | pears on the cover sheet with | h the correspondence ac | ddress | | |
| WHIC - Exte after - If NC - Failu Any | ORTENED STATUTORY PERIOD FOR REPL' CHEVER IS LONGER, FROM THE MAILING D. nsions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. D period for reply is specified above, the maximum statutory period or tre to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b). | ATE OF THIS COMMUNIC 36(a). In no event, however, may a reposite apply and will expire SIX (6) MONT a, cause the application to become ABA | ATION. ply be timely filed HS from the mailing date of this of the control of t | | | |
| Status | | | | | | |
| 1) 又 | Responsive to communication(s) filed on 10 Ja | anuary 2006. | | | | |
| • — | | action is non-final. | | | | |
| · · · · · | 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits | | | | | |
| -, | closed in accordance with the practice under E | • | · • | | | |
| Disposit | ion of Claims | • . • | | | | |
| 4)⊠ | Claim(s) 1-4,7-12,14 and 16-20 is/are pending | in the application. | | | | |
| ٠,ڪ | 4a) Of the above claim(s) is/are withdraw | | | | | |
| 5)□ | Claim(s) is/are allowed. | | | | | |
| · · · · · | Claim(s) <u>1-4,7-12,14,16-20</u> is/are rejected. | • | | | | |
| 7) | Claim(s) is/are objected to. | • | | | | |
| • | Claim(s) are subject to restriction and/o | r election requirement. | | | | |
| , | , | • • | | | | |
| Applicat | ion Papers | : | | | | |
| 9)[| The specification is objected to by the Examine | er. | | | | |
| 10)[| The drawing(s) filed on is/are: a) acc | epted or b) objected to b | y the Examiner. | | | |
| | Applicant may not request that any objection to the | drawing(s) be held in abeyand | e. See 37 CFR 1.85(a). | | | |
| | Replacement drawing sheet(s) including the correct | tion is required if the drawing(s | s) is objected to. See 37 C | FR 1.121(d). | | |
| 11) | The oath or declaration is objected to by the Ex | caminer. Note the attached | Office Action or form P | TO-152. | | |
| Priority i | under 35 U.S.C. § 119 | : | | | | |
| | • | mulanikmdan 25 H O O S | 440(a) (d) an (5) | | | |
| • | Acknowledgment is made of a claim for foreign | priority under 35 U.S.C. § | 119(a)-(d) or (t). | | | |
| a) | ☐ All b)☐ Some * c)☐ None of: | a baya baan raasiyad | | | | |
| | 1. Certified copies of the priority document | • | nlineline Nie | | | |
| | 2. Certified copies of the priority document | • | · | 01 | | |
| | 3. Copies of the certified copies of the prior | | eceived in this National | Stage | | |
| * (| application from the International Bureau | | | | | |
| | See the attached detailed Office action for a list | or the certified copies not re | eceivea. | | | |
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| Attachmen | | · ∧□·· · · | (DTO 440) | | | |
| | e of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (PTO-948) | | ımmary (PTO-413) /Mail Date | | | |
| 3) 🔀 Infor | mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) Notice of Inf | ormal Patent Application (PT | O-152) | | |
| Pape | r No(s)/Mail Date | 6) | _ • | | | |

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DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

1. Claims 1-4, 7-12, 14, and 16-20 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. Claims 1, 7, 12, and 16 recite the limitation "wherein the speech recognition application has in advance of the user accessing each of the pages, a voice module including a vocabulary for each of the pages corresponding to the multiple operations provided by the protocol server." Although the specification provides for accessing a stored vocabulary, the specification does not specifically provide that the vocabulary is stored in advance of the user accessing each page, nor does it specifically provide for a vocabulary for each of the pages corresponding to the multiple operations provided by the server.

Claim Rejections - 35 USC § 103

2. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

- 3. Claims 1-4, 7-14, 17-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Pearson (US 6,023,684) in view of Giangarra et al (U.S. Patent 6,101,472).
- 4. Regarding claims 1 and 7 as understood by the Examiner and claim 16, Pearson reads on the features of a system for permitting a user to remotely access data as follows:

Pearson reads on the feature of a systems interface to a plurality of legacy systems (column 1 lines 7-8), the systems interface comprising a first server for managing for protocol (done by the Web Server 50 in figure 2) and a 2nd server for generating legacy transactions (done by the Application Server 56 in figure 2) and a firewall that protects the first server and the second server (firewall 54 and filtering router 44);

Pearson reads on the feature of a computer operable by the user to access data from the legacy systems through the systems interface (depicted in figure 2 as the process path 28-34-44-50-56-58-60), where the computer is programmed with a client application for accessing the systems interface (as happens when a client program initiates a logical session to access the system, column 4 lines 22-24), and where the client application is adapted to format requests for information based on user input (column 4 lines 28-30);

With regard to the singular feature that is particular to claim 7, Pearson reads on the feature of a communications link coupling the computer and the means for providing an interface (column 7 lines 37-39).

Regarding the further limits of the claims, the VRU of Pearson lists the considerations required for voice processing in promotion of his invention (column 2 lines 28 - column 3 line 32) without expressly teaching away from the feature so that his invention in turn could use

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speech recognition. Consequently Pearson teaches the feature of a voice input device coupled to the computer (the VRU of column 2 lines 29-33), which satisfies the requirement of claim 16, but does not provide for the further feature of claims 1 and 7, of receiving voice. Pearson does not teach the specifics of multiple operations, a graphical user interface that has a page for selecting one of the multiple operations or the specifics of the speech recognition application with voice module for each page corresponding to the multiple operations provided by the server.

Giangarra discloses a voice command interface in a data processing system and method are implemented to allow a user to speak a name of a link identified by Hypertext Markup Language (HTML) format to receive a desired web page from a communication network, such as the Internet. During operation of the data processing system and method for implementing the voice command interface, a client computer accesses a current web page using a server. When a new web page is accessed, a central processing unit in the data processing system provides control signals to a speech recognition unit to clear a vocabulary list currently stored within the speech recognition unit. Subsequently, the central processing unit commences to parse the HTML source code corresponding to the accessed web page. The central processing unit then determines whether the accessed web page has any links therein. If the web page does have links, the central processing unit detects those links during a parsing operation and enables the speech recognition unit to store the text displayed to an external user, which corresponds to the link in a special vocabulary list of the speech recognition unit. A user is then able to provide a voice command to access the link by speaking the text stored within the special vocabulary list. Upon speaking that text, the central processing unit accesses a web page corresponding to the link

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identified by the text (Figures 6-12; col. 5, lines 25-46; col. 6, lines 32-61; col. 7, line 66 to col.8, line 8). It would have been obvious to a person of ordinary skill in the art of speech signal processing at the time of the invention to apply the method and/or teachings of Giangarra et al to the device/method of Pearson so as to realize the advantage of speech input using a microphone or a telephone.

Pearson does not specifically teach the speech recognition application has in advance of the user accessing each of the pages, a voice module including a vocabulary for each of the pages corresponding to the multiple operations provided by the protocol server. However, providing for a complete vocabulary in a voice user interface or speech recognition system was well known in the art, and it would have been obvious to one of ordinary skill at the time of the invention to provide a complete vocabulary for each of the pages associated with the operations of the application, as was well known in the art, for the purpose of providing the appropriate and necessary acoustic templates or models required in the speech recognition without requiring repeated requests or attempts at training and vocabulary updating on the system.

5. Regarding claim 2, the claim is set forth with the same limits as claim 1. Pearson (column 8 lines 1 8-34) reads on the feature that the computer logs into the first server over a wireless communications network (the "other physical connecting configuration" of line 23 column 8) of which special notice is provided that wireless communication was well-known in the form of cellular and cordless telephones and so would have been obvious to a person of ordinary skill in the ad of speech signal processing at the time of the invention to apply as a methods of initiating communication between the user computer/client and the host server/mainframe.

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6. Regarding claim 3, the claim is set forth with the same limits as claim 1. Pearson reads on the feature that the computer logs into the first server (with the procedures in column 8 lines 25-34) over a wire line communications network (from phone to mainframe, column 1 lines 30-33).

7. Regarding claims 4 and 8 the claims are set forth with the same limits as claims 1 and 7, respectively. Pearson reads on the feature of claim 4 that the data recognized by the client application includes selection of an operation (the service call of column 11 line 10) and information completing a data field for the operation (using data in column 11 lines 10-11).

This same reference reads on the same features of claim 8 expressed in the alternative regarding the selection of an operation or the input of information into a data field for the operation.

- 8. Regarding claim 9, the claim is set forth with the same limits as claim 7. Pearson reads on the feature that user requests are processed by the means for providing an interface in order to generate legacy transactions (done by the Application Server 56 in figure 2).
- 9. Regarding claim 10, the claim is set forth with the same limits as claim 7. Pearson reads on the feature of a protocol server (the Web Server 50 in figure 2) and a transaction server (the Application Server 56 in figure 2).
- 10. Regarding claim 11, the claim is set forth with the same limits as claim 7. Pearson reads on the features that the protocol server receives the user requests (from 28 in figure 2) and forwards the user requests to the transaction server (50-56 in figure 2), and wherein the transaction server generates legacy transactions based on the user requests (56-58 in figure 2), receives the requested information based on the legacy transactions (56-58 in figure 2), and forwards the requested information to the protocol server (50-56 in figure 2).

11. Regarding claim 12 as understood by the Examiner, Pearson reads on the features for a

system for remotely accessing legacy data through a systems interface to a plurality of legacy

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systems (28-34-44-50-56-58/60 in figure 2) as follows:

Pearson reads on the feature of a voice input device (VRU of column 2 lines 29-33);

Pearson reads on the feature of a modem (column 1 lines 59-67);

Pearson reads on the feature of a systems interface in communications with the plurality

of legacy systems, wherein the systems interface is protected from the legacy systems by

a firewall (firewall 54 and filtering router 44); and

Pearson reads on the feature of a computer (28 in figure 2) that includes at least one

memory programmed with software for performing the following:

The VRU of Pearson presents considerations required for voice processing in promotion of his invention (column 2 lines 28 - column 3 line 32) without expressly teaching away from the feature so that his invention in turn could use speech recognition. Consequently, Pearson teaches

the feature of software for receiving request to input by voice. Pearson does not teach the

specifics of multiple operations, a graphical user interface that has a page for selecting one of the

multiple operations or the specifics of the speech recognition application with voice module for

each page corresponding to the multiple operations provided by the server.

Giangarra discloses a voice command interface in a data processing system and method

are implemented to allow a user to speak a name of a link identified by Hypertext Markup

Language (HTML) format to receive a desired web page from a communication network, such as

the Internet. During operation of the data processing system and method for implementing the

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voice command interface, a client computer accesses a current web page using a server. When a new web page is accessed, a central processing unit in the data processing system provides control signals to a speech recognition unit to clear a vocabulary list currently stored within the speech recognition unit. Subsequently, the central processing unit commences to parse the HTML source code corresponding to the accessed web page. The central processing unit then determines whether the accessed web page has any links therein. If the web page does have links, the central processing unit detects those links during a parsing operation and enables the speech recognition unit to store the text displayed to an external user, which corresponds to the link in a special vocabulary list of the speech recognition unit. A user is then able to provide a voice command to access the link by speaking the text stored within the special vocabulary list. Upon speaking that text, the central processing unit accesses a web page corresponding to the link identified by the text (Figures 6-12; col. 5, lines 25-46; col. 6, lines 32-61; col. 7, line 66 to col.8, line 8). It would have been obvious to a person of ordinary skill in the art of speech signal processing at the time of the invention to apply the method and/or teachings of Giangarra et al to the device/method of Pearson so as to realize the advantage of speech input using a microphone or a telephone.

Pearson does not specifically teach the speech recognition application has in advance of the user accessing each of the pages, a voice module including a vocabulary for each of the pages corresponding to the multiple operations provided by the protocol server. However, providing for a complete vocabulary in a voice user interface or speech recognition system was well known in the art, and it would have been obvious to one of ordinary skill at the time of the invention to provide a complete vocabulary for each of the pages associated with the operations of the

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application, as was well known in the art, for the purpose of providing the appropriate and necessary acoustic templates or models required in the speech recognition without requiring repeated requests or attempts at training and vocabulary updating on the system.

- 12. Regarding claim 14, the claim is set forth with the same limits as claim 12. The features of the claim are the same as those found in claim 4 and the claim is rejected for the same reason.
- 13. Regarding claim 16, Pearson, with the invention for a 3-tier financial transaction system, reads on the claim for a method for allowing a user to access data as follows:

Pearson teaches the feature of logging onto a systems interface to legacy systems (by initiating a session column 4 line 23);

Pearson teaches the feature of receiving voice inputs (with the VRU col. 1 lines 28-32);

Pearson teaches the feature of converting the voice inputs to a user request (column 1 lines 36-42);

Pearson teaches on the feature of sending the user request to the systems interface (column 1 lines 42-45); and

Pearson reads on the feature of receiving data from the systems interface in response to the user request (column 1, lines 48-49).

The VRU of Pearson presents considerations required for voice processing in promotion of his invention (column 2 lines 28 - column 3 line 32) without expressly teaching away from the feature so that his invention in turn could use speech recognition. Consequently, Pearson teaches the feature of software for receiving request to input by voice. Pearson does not teach the specifics of multiple operations, a graphical user interface that has a page for selecting one of the

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multiple operations or the specifics of the speech recognition application with voice module for each page corresponding to the multiple operations provided by the server.

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Giangarra discloses a voice command interface in a data processing system and method are implemented to allow a user to speak a name of a link identified by Hypertext Markup Language (HTML) format to receive a desired web page from a communication network, such as the Internet. During operation of the data processing system and method for implementing the voice command interface, a client computer accesses a current web page using a server. When a new web page is accessed, a central processing unit in the data processing system provides control signals to a speech recognition unit to clear a vocabulary list currently stored within the speech recognition unit. Subsequently, the central processing unit commences to parse the HTML source code corresponding to the accessed web page. The central processing unit then determines whether the accessed web page has any links therein. If the web page does have links, the central processing unit detects those links during a parsing operation and enables the speech recognition unit to store the text displayed to an external user, which corresponds to the link in a special vocabulary list of the speech recognition unit. A user is then able to provide a voice command to access the link by speaking the text stored within the special vocabulary list. Upon speaking that text, the central processing unit accesses a web page corresponding to the link identified by the text (Figures 6-12; col. 5, lines 25-46; col. 6, lines 32-61; col. 7, line 66 to col.8, line 8). It would have been obvious to a person of ordinary skill in the art of speech signal processing at the time of the invention to apply the method and/or teachings of Giangarra et al to the device/method of Pearson so as to realize the advantage of speech input using a microphone or a telephone.

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Pearson does not specifically teach the speech recognition application has in advance of the user accessing each of the pages, a voice module including a vocabulary for each of the pages corresponding to the multiple operations provided by the protocol server. However, providing for a complete vocabulary in a voice user interface or speech recognition system was well known in the art, and it would have been obvious to one of ordinary skill at the time of the invention to provide a complete vocabulary for each of the pages associated with the operations of the application, as was well known in the art, for the purpose of providing the appropriate and necessary acoustic templates or models required in the speech recognition without requiring repeated requests or attempts at training and vocabulary updating on the system.

15. Regarding claim 17, the claim is set forth with the same limits as claim 16. Pearson teaches the limitations of the feature for receiving a request for input by voice with the VRU (column 2 lines 28 - column 3 line 32). Without teaching away from the first feature, Pearson does not mention speech recognition. Giangarra discloses the central processing unit detects those links during a parsing operation and enables the speech recognition unit to store the text displayed to an external user, which corresponds to the link in a special vocabulary list of the speech recognition unit. A user is then able to provide a voice command to access the link by speaking the text stored within the special vocabulary list. Upon speaking that text, the central processing unit accesses a web page corresponding to the link identified by the text (Figures 6-12; col. 5, lines 25-46; col. 6, lines 32-61; col. 7, line 66 to col.8, line 8). It would have been obvious to a person of ordinary skill in the art of speech signal processing at the time of the

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invention to apply the method and/or teachings of Giangarra et al to the device/method of Pearson so as to realize the advantage of speech input using a microphone or a telephone.

- 16. Regarding claim 18, the claim is set forth with the same limits as claim 16. Pearson teaches the limitations of converting the voice inputs to user inputs (column 1, lines 36-41) and converting the user inputs into the user request (column 1, lines 42-45).
- 17. Regarding claim 19, the claim is set forth with the same limits as claim 18. Recounting the existing capabilities available in other prior art to promote his invention, Pearson reads on the feature of selecting an operation or providing information for an operation (with the menu and inputs of column 1 lines 39-40). As the speech feature of this art is provided to illuminate the invention, this reference does not teach against the illustrated implementation of the features.
- 18. Regarding claim 20, the claim is set forth with the same limits as claim 18. Pearson reads on the feature of a protocol server (the Web Server 50 in figure 2) and a transaction server (the Application Server 56 in figure 2).

Response to Arguments

19. Applicant's arguments with respect to claims 1-4, 7-12, 14, and 16-20 have been considered but are most in view of the new ground(s) of rejection.

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Conclusion

20. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Angela A. Armstrong whose telephone number is 571-272-7598. The examiner can normally be reached on Monday-Thursday 11:30-8:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Hudspeth can be reached on 571-272-7843. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Angela A Armstrong Primary Examiner Art Unit 2626

angela a. aunstrong

AAA March 20, 2006